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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	DEC 01	ChemPort single article sales feature unavailable
NEWS 3	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN
NEWS 4	JUN 26	NUTRACEUT and PHARMAML no longer updated
NEWS 5	JUN 29	IMSCOPROFILE now reloaded monthly
NEWS 6	JUN 29	EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields
NEWS 7	JUL 09	PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS 8	JUL 14	USGENE enhances coverage of patent sequence location (PSL) data
NEWS 9	JUL 27	CA/CAplus enhanced with new citing references
NEWS 10	JUL 16	GBFULL adds patent backfile data to 1855
NEWS 11	JUL 21	USGENE adds bibliographic and sequence information
NEWS 12	JUL 28	EPFULL adds first-page images and applicant-cited references
NEWS 13	JUL 28	INPADOCDB and INPAFAMDB add Russian legal status data
NEWS 14	AUG 08	Improve STN by completing a survey and be entered to win a gift card
NEWS 15	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* http://www.zoomerang.com/Survey/?p=WEB229H4S8Q5UL *

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FILE 'HOME' ENTERED AT 12:20:38 ON 11 AUG 2009

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.22       0.22

FILE 'REGISTRY' ENTERED AT 12:20:56 ON 11 AUG 2009
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STRUCTURE FILE UPDATES:   10 AUG 2009  HIGHEST RN 1173881-48-5
DICTIONARY FILE UPDATES:  10 AUG 2009  HIGHEST RN 1173881-48-5

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
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=> s (1-1.05)/li and (0.92-.098)/ni and (0.005-0.3_/mg and 2/o
UNMATCHED LEFT PARENTHESIS 'AND (0.005-0.3_'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (1-1.05)/li and (0.92-.098)/ni and (0.005-0.3)/mg and 2/o
INCONSISTENT NUMERIC RANGE EXPRESSION '0.92-.098'
The lower limit in a numeric range must be given before the upper
limit.  For example, '5-1/C' is not valid.  The correct form is
'1-5/C'.

=> s (1-1.05)/li and (0.92-.98)/ni and (0.005-0.3)/mg and 2/o
        116588 (1-1.05)/LI
          2247 (0.92-.98)/NI
         22070 (0.005-0.3)/MG
       9590248 2/O
L1           33 (1-1.05)/LI AND (0.92-.98)/NI AND (0.005-0.3)/MG AND 2/O

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      23.32      23.54

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FILE COVERS 1907 - 11 Aug 2009 VOL 151 ISS 7
FILE LAST UPDATED: 10 Aug 2009 (20090810/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

```
=> s l1
L2          45 L1

=> s l2 and (battery or cathode)
        160701 BATTERY
        124488 BATTERIES
        174952 BATTERY
                  (BATTERY OR BATTERIES)
        214055 CATHODE
         89031 CATHODES
        237194 CATHODE
                  (CATHODE OR CATHODES)
L3          42 L2 AND (BATTERY OR CATHODE)

=> d l3 ti pn

L3   ANSWER 1 OF 42  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Method for producing cathode for nonaqueous electrolyte
     secondary battery and method for producing nonaqueous
     electrolyte secondary battery
     PATENT NO.          KIND   DATE
     ---------------     ----   --------
PI   US 20090119908       A1    20090514
     JP 2009140909        A     20090625
     KR 2009049554        A     20090518
     CN 101436660         A     20090520
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```
=> d l3 1-42 ti pn

L3   ANSWER 1 OF 42  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Method for producing cathode for nonaqueous electrolyte
     secondary battery and method for producing nonaqueous
     electrolyte secondary battery
     PATENT NO.          KIND   DATE
     ---------------     ----   --------
PI   US 20090119908       A1    20090514
     JP 2009140909        A     20090625
     KR 2009049554        A     20090518
     CN 101436660         A     20090520

L3   ANSWER 2 OF 42  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Method for judging quality of lithium nickel composite oxide and
     cathode using lithium nickel composite oxide
     PATENT NO.          KIND   DATE
     ---------------     ----   --------
PI   US 20090120163       A1    20090514
     JP 2009123448        A     20090604
     KR 2009049535        A     20090518
     CN 101435806         A     20090520

L3   ANSWER 3 OF 42  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Cathode materials for Li-ion batteries
     PATENT NO.          KIND   DATE
     ---------------     ----   --------
PI   US 7494744           B2    20090224
     US 20070212606       A1    20070913
     CA 2636380           A1    20070913
     WO 2007103179        A2    20070913
     WO 2007103179        A3    20080821
     EP 1992027           A2    20081119
     JP 2009523309        T     20090618
     IN 2008CN03555       A     20090313
     KR 2008077412        A     20080822
     CN 101401230         A     20090401
     US 20090146102       A1    20090611
     US 20090146103       A1    20090611
     US 20090145536       A1    20090611

L3   ANSWER 4 OF 42  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Nonaqueous electrolyte secondary battery
     PATENT NO.          KIND   DATE
     ---------------     ----   --------
PI   US 20090035660       A1    20090205
     JP 2009037740        A     20090219
     KR 2009013025        A     20090204

L3   ANSWER 5 OF 42  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Olivine-type cathode materials for secondary batteries
     PATENT NO.          KIND   DATE
     ---------------     ----   --------
PI   KR 2009008870        A     20090122
     KR 894608            B1    20090424

L3   ANSWER 6 OF 42  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Positive electrode active material for non-aqueous electrolyte secondary
     battery and method for producing the same, and non-aqueous
     electrolyte secondary battery using positive electrode active
     material
```

	PATENT NO.	KIND	DATE
PI	US 20080118829	A1	20080522
	JP 2008152923	A	20080703
	CN 101188295	A	20080528

L3 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electrode for lithium secondary batteries having enhanced cycle performance

	PATENT NO.	KIND	DATE
PI	US 20080113266	A1	20080515
	KR 2008043087	A	20080516
	KR 875126	B1	20081222

L3 ANSWER 8 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonaqueous electrolyte and lithium secondary battery containing this electrolyte

	PATENT NO.	KIND	DATE
PI	KR 2007083278	A	20070824

L3 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonaqueous electrolyte containing lactone compound used in secondary lithium battery

	PATENT NO.	KIND	DATE
PI	KR 750246	B1	20070817

L3 ANSWER 10 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Anion receptor comprising aromatic amines substituted with electron withdrawing groups and electrolyte using the same for alkali metal batteries

	PATENT NO.	KIND	DATE
PI	WO 2007126262	A1	20071108

L3 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cathode material for lithium ion battery applications

	PATENT NO.	KIND	DATE
PI	WO 2007103179	A2	20070913
	WO 2007103179	A3	20080821
	US 7494744	B2	20090224
	US 20070212606	A1	20070913
	CA 2636380	A1	20070913
	EP 1992027	A2	20081119
	JP 2009523309	T	20090618
	IN 2008CN03555	A	20090313
	KR 2008077412	A	20080822
	CN 101401230	A	20090401

L3 ANSWER 12 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI High-performance composite electrode materials for lithium batteries

	PATENT NO.	KIND	DATE
PI	US 20070057228	A1	20070315
	WO 2007035584	A2	20070329
	WO 2007035584	A3	20071025

L3 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Nonaqueous electrolyte battery, battery pack and cathode active material

	PATENT NO.	KIND	DATE
PI	US 20060134520	A1	20060622
	JP 2006173049	A	20060629
	JP 4213659	B2	20090121

L3 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Effect of (Al, Mg) substitution in LiNiO2 electrode for lithium batteries

L3 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of active electrode materials for anode of lithium ion battery

	PATENT NO.	KIND	DATE
PI	CN 1665053	A	20050907

L3 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium nickel mixed oxide cathode active mass and its manufacture for secondary nonaqueous electrolyte battery

	PATENT NO.	KIND	DATE
PI	JP 2005302507	A	20051027

L3 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium ion secondary battery

	PATENT NO.	KIND	DATE
PI	US 20050142440	A1	20050630
	JP 2005197002	A	20050721
	FR 2864708	A1	20050701
	FR 2864708	B1	20081107

L3 ANSWER 18 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method for regulating terminal voltage of cathode during overdischarge and cathode active material for lithium secondary battery

	PATENT NO.	KIND	DATE
PI	US 20050118496	A1	20050602
	KR 2003076153	A	20030926
	WO 2003081697	A1	20031002
	US 20040157124	A1	20040812
	US 7282300	B2	20071016

L3 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method for regulating terminal voltage of cathode during overdischarge and cathode active material for lithium secondary battery

	PATENT NO.	KIND	DATE
PI	WO 2005031892	A2	20050407
	WO 2005031892	A3	20050602
	KR 2005030588	A	20050330
	CN 1745490	A	20060308
	CN 100344018	C	20071017
	JP 2006514776	T	20060511
	EP 1665420	A2	20060607
	TW 263369	B	20061001
	IN 2005DN03223	A	20090403

L3 ANSWER 20 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Effect of Magnesium Substitution in Lithium Nickel Oxide

L3 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Secondary lithium batteries showing safety even in overcharging

	PATENT NO.	KIND	DATE
PI	JP 2004047180	A	20040212

L3 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonaqueous electrolyte secondary battery using cobalt-lithium-manganese-nickel oxide as active mass

	PATENT NO.	KIND	DATE
PI	JP 2003346797	A	20031205

L3 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium secondary battery comprising overdischarge-preventing agent

	PATENT NO.	KIND	DATE
PI	WO 2003081697	A1	20031002
	KR 2003076153	A	20030926
	CN 1518777	A	20040804
	CN 1234179	C	20051228
	EP 1490916	A1	20041229
	JP 2005521220	T	20050714
	US 20040157124	A1	20040812
	US 7282300	B2	20071016
	US 20050118496	A1	20050602

L3 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE
PI	US 20030180618	A1	20030925
	JP 2003282055	A	20031003
	JP 4307005	B2	20090805

L3 ANSWER 25 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Surface/chemically modified oxide cathodes for lithium-ion batteries

	PATENT NO.	KIND	DATE
PI	US 20030108790	A1	20030612
	WO 2003049218	A1	20030612
	AU 2002351231	A1	20030617

L3 ANSWER 26 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Layered Li(Ni,M)O2 systems as the cathode material in lithium-ion batteries

L3 ANSWER 27 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method of preparation of a cathode active material for lithium secondary battery

	PATENT NO.	KIND	DATE
PI	WO 2002073717	A1	20020919
	KR 2002072833	A	20020919
	EP 1281207	A1	20030205
	JP 2004519825	T	20040702

	JP 3860542	B2	20061220
	CN 1222062	C	20051005
	TW 567632	B	20031221
	US 20030108794	A1	20030612
	US 20070122338	A1	20070531

L3 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Solid electrolyte cell

	PATENT NO.	KIND	DATE
PI	EP 1195826	A2	20020410
	EP 1195826	A3	20031126
	JP 2002117844	A	20020419
	JP 3982165	B2	20070926
	US 20020094481	A1	20020718
	US 6720113	B2	20040413
	TW 523952	B	20030311
	CN 1349273	A	20020515
	CN 1181590	C	20041222
	CA 2358294	A1	20020405
	MX 2001009973	A	20030820
	KR 826814	B1	20080502

L3 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Doped lithium nickel cobalt mixed oxides for the positive electrode in lithium ion batteries

L3 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE
PI	EP 1180809	A2	20020220
	EP 1180809	A3	20070509
	JP 2002063940	A	20020228
	TW 511314	B	20021121
	CA 2354754	A1	20020214
	US 20020076612	A1	20020620
	US 6677080	B2	20040113
	CN 1341975	A	20020327
	CN 1220292	C	20050921
	KR 832251	B1	20080528

L3 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium secondary battery

	PATENT NO.	KIND	DATE
PI	EP 1168472	A1	20020102
	JP 2002083597	A	20020322
	CN 1331498	A	20020116
	CN 1167156	C	20040915
	US 20020015890	A1	20020207
	US 6537702	B2	20030325

L3 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis and properties of LiGaxMgyNi1-x-yO2 as cathode material for lithium ion batteries

L3 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium nickel oxide cathode active mass for secondary lithium batteries and the batteries

	PATENT NO.	KIND	DATE

PI JP 2000348724 A 20001215

L3 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Mixtures of lithium manganese oxide spinel as cathode active material

PATENT NO.	KIND	DATE
PI US 6159636	A	20001212
US 5753202	A	19980519

L3 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonaqueous lithium electrolyte secondary battery

PATENT NO.	KIND	DATE
PI EP 1043794	A2	20001011
EP 1043794	A3	20021218
US 6165647	A	20001226
CN 1270424	A	20001018
CN 1162934	C	20040818

L3 ANSWER 36 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis and characterization of new LiNi1-yMgyO2 positive electrode materials for lithium-ion batteries

L3 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Recent results on electrode materials for rechargeable Li-ion batteries

L3 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI An overview of the Li(Ni,M)O2 systems: syntheses, structures and properties

L3 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Effect of addition of a foreign element to LiNiO2 by complex polymerized method on its electrochemical properties

L3 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium secondary batteries and their cathode active materials

PATENT NO.	KIND	DATE
PI JP 10162830	A	19980619
JP 3355102	B2	20021209

L3 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Manufacture of lithium nickelate cathode materials for lithium batteries

PATENT NO.	KIND	DATE
PI JP 10134811	A	19980522

L3 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium rechargeable electrode for electrochemical generator

PATENT NO.	KIND	DATE
PI WO 9802928	A1	19980122
FR 2751135	A1	19980116
US 6071645	A	20000606
CA 2228671	A1	19980122
EP 858677	A1	19980819
EP 858677	B1	20011205
JP 11513181	T	19991109

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=> s l3 and coprecipitation
          6566 COPRECIPITATION
             3 COPRECIPITATIONS
          6569 COPRECIPITATION
                 (COPRECIPITATION OR COPRECIPITATIONS)
         18670 COPPTN
            63 COPPTNS
         18692 COPPTN
                 (COPPTN OR COPPTNS)
         20181 COPRECIPITATION
                 (COPRECIPITATION OR COPPTN)
L4           1 L3 AND COPRECIPITATION

=> d l4

L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2009 ACS on STN
AN   2000:420270  CAPLUS
DN   133:61233
TI   Synthesis and characterization of new LiNi1-yMgyO2 positive electrode
     materials for lithium-ion batteries
AU   Pouillerie, C.; Croguennec, L.; Biensan, Ph.; Willmann, P.; Delmas, C.
CS   Institut de Chimie de la Matiere Condensee de Bordeaux-CNRS and Ecole
     Nationale Superieure de Chimie et Physique de Bordeaux, Pessac, 33608, Fr.
SO   Journal of the Electrochemical Society (2000), 147(6), 2061-2069
     CODEN: JESOAN; ISSN: 0013-4651
PB   Electrochemical Society
DT   Journal
LA   English
OSC.G   70    THERE ARE 70 CAPLUS RECORDS THAT CITE THIS RECORD (71 CITINGS)
RE.CNT  65    THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


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COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               63.22      86.76

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LOGINID:SSPTAZPB1745

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *
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NEWS 1 Web Page for STN Seminar Schedule - N. America
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NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source (CS) field
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NEWS 5 AUG 24 CA/CAplus enhanced with legal status information for U.S. patents
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
NEWS 10 NOV 23 Addition of SCAN format to selected STN databases
NEWS 11 NOV 23 Annual Reload of IFI Databases
NEWS 12 DEC 01 FRFULL Content and Search Enhancements
NEWS 13 DEC 01 DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS 16 DEC 02 USGENE: Enhanced coverage of bibliographic and sequence information
NEWS 17 DEC 21 New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAplus
NEWS 18 JAN 12 Match STN Content and Features to Your Information Needs, Quickly and Conveniently
NEWS 19 JAN 25 Annual Reload of MEDLINE database
NEWS 20 FEB 16 STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download
NEWS 21 FEB 16 Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts
NEWS 22 FEB 16 New FASTA Display Formats Added to USGENE and PCTGEN
NEWS 23 FEB 16 INPADOCDB and INPAFAMDB Enriched with New Content and Features
NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail Addresses

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:22:13 ON 17 FEB 2010

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.22 0.22

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STRUCTURE FILE UPDATES: 15 FEB 2010 HIGHEST RN 1206588-85-3
DICTIONARY FILE UPDATES: 15 FEB 2010 HIGHEST RN 1206588-85-3

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REGISTRY includes numerically searchable data for experimental and
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http://www.cas.org/support/stngen/stndoc/properties.html

=> s (1-1.05)/li and ((0.85-0.995)/Co or (0.85-0.995)/Ni) and ((0.005-0.1)/Mg or
(0.005-0.1)/Ti or (0.005-0.1)/Zn) and 2/O
119225 (1-1.05)/LI
4183 (0.85-0.995)/CO
5347 (0.85-0.995)/NI
12278 (0.005-0.1)/MG
9675 (0.005-0.1)/TI
10308 (0.005-0.1)/ZN
10193967 2/O
L1 408 (1-1.05)/LI AND ((0.85-0.995)/CO OR (0.85-0.995)/NI) AND ((0.005
-0.1)/MG OR (0.005-0.1)/TI OR (0.005-0.1)/ZN) AND 2/O

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 40.46 40.68

FILE 'CAPLUS' ENTERED AT 13:24:40 ON 17 FEB 2010
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FILE COVERS 1907 - 17 Feb 2010 VOL 152 ISS 8
FILE LAST UPDATED: 16 Feb 2010 (20100216/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l1 and battery
           325 L1
        167646 BATTERY
        129579 BATTERIES
        182530 BATTERY
                  (BATTERY OR BATTERIES)
L2         308 L1 AND BATTERY

=> S L2 AND PY<=2004
      25157325 PY<=2004
L3         153 L2 AND PY<=2004

=> S L3 AND (PATENT)/DT
        7066938 (PATENT)/DT
L4         116 L3 AND (PATENT)/DT

=> d l4 ti pn

L4   ANSWER 1 OF 116  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Cathode active material and nonaqueous electrolyte secondary
     battery
     PATENT NO.          KIND   DATE
     ---------------     ----   --------
PI   JP 4325112           B2    20090902                              <--
     JP 2002203553        A     20020719
     WO 2002054512        A1    20020711                              <--
     TW 533612            B     20030521                              <--
     EP 1347524           A1    20030924                              <--
     CN 1619866           A     20050525
     CN 1298066           C     20070131
     CN 1638174           A     20050713
     CN 100382364         C     20080416
     CN 1248342           C     20060329
     KR 882144            B1    20090206
     US 20030134200       A1    20030717                              <--
     US 20060093914       A1    20060504
     KR 2008100500        A     20081118
     KR 915795            B1    20090908


=> d 1-100 l4 ti pn

L4   ANSWER 1 OF 116  CAPLUS  COPYRIGHT 2010 ACS on STN
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TI Cathode active material and nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	JP 4325112	B2	20090902	<--
	JP 2002203553	A	20020719	
	WO 2002054512	A1	20020711	<--
	TW 533612	B	20030521	<--
	EP 1347524	A1	20030924	<--
	CN 1619866	A	20050525	
	CN 1298066	C	20070131	
	CN 1638174	A	20050713	
	CN 100382364	C	20080416	
	CN 1248342	C	20060329	
	KR 882144	B1	20090206	
	US 20030134200	A1	20030717	<--
	US 20060093914	A1	20060504	
	KR 2008100500	A	20081118	
	KR 915795	B1	20090908	

L4 ANSWER 2 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Synthesis of doped lithium nickelate for lithium battery

	PATENT NO.	KIND	DATE	
PI	CN 1540782	A	20041027	<--

L4 ANSWER 3 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Method for regulating terminal voltage of cathode during overdischarge and cathode active material for lithium secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20050118496	A1	20050602	
	KR 2003076153	A	20030926	<--
	WO 2003081697	A1	20031002	<--
	US 20040157124	A1	20040812	<--
	US 7282300	B2	20071016	

L4 ANSWER 4 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery and charge/discharge system thereof

	PATENT NO.	KIND	DATE	
PI	WO 2004102701	A1	20041125	<--
	JP 2004342500	A	20041202	<--
	CN 1735985	A	20060215	
	CN 100373663	C	20080305	
	EP 1655793	A1	20060510	
	US 20060194109	A1	20060831	
	KR 790270	B1	20080102	

L4 ANSWER 5 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous electrolyte battery

	PATENT NO.	KIND	DATE	
PI	JP 2004319268	A	20041111	<--

L4 ANSWER 6 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Process for producing lithium composite oxide particles for lithium secondary battery cathodes

	PATENT NO.	KIND	DATE	
PI	US 20040175618	A1	20040909	<--

	US 7510805	B2	20090331	
	JP 2004265806	A	20040924	<--
	US 20090075175	A1	20090319	

L4 ANSWER 7 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material and nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	JP 2004235144	A	20040819	<--

L4 ANSWER 8 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	WO 2004070863	A1	20040819	<--
	JP 2005050779	A	20050224	
	JP 4307962	B2	20090805	
	EP 1598884	A1	20051123	
	CN 1771619	A	20060510	
	CN 100342571	C	20071010	
	US 20060078795	A1	20060413	
	US 20090208846	A1	20090820	

L4 ANSWER 9 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium ion secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20040157125	A1	20040812	<--
	US 7462421	B2	20081209	
	JP 2004265863	A	20040924	<--
	KR 2004073350	A	20040819	<--
	CN 1521875	A	20040818	<--
	CN 1248340	C	20060329	

L4 ANSWER 10 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI A highly safe battery pack for lithium ion secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20040146775	A1	20040729	<--
	US 7354677	B2	20080408	
	JP 2004228045	A	20040812	<--

L4 ANSWER 11 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Method of producing cathode active material for nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20040142241	A1	20040722	<--
	US 7157186	B2	20070102	
	JP 2004220785	A	20040805	<--
	JP 4274801	B2	20090610	
	CN 1518142	A	20040804	<--
	CN 1258240	C	20060531	

L4 ANSWER 12 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material for nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20040142240	A1	20040722	<--

	US 7381497	B2	20080603	
	JP 2004220952	A	20040805	<--
	JP 4271448	B2	20090603	
	CN 1518145	A	20040804	<--
	CN 1276532	C	20060920	

L4 ANSWER 13 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte rechargeable battery

	PATENT NO.	KIND	DATE	
PI	US 20040126661	A1	20040701	<--
	US 7255963	B2	20070814	
	JP 2004207120	A	20040722	<--
	JP 3844733	B2	20061115	

L4 ANSWER 14 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass for secondary nonaqueous electrolyte battery , its manufacture, and the battery

	PATENT NO.	KIND	DATE	
PI	JP 2004119172	A	20040415	<--

L4 ANSWER 15 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode material for secondary lithium battery and its manufacture

	PATENT NO.	KIND	DATE	
PI	WO 2004030126	A1	20040408	<--
	CN 1685543	A	20051019	
	CN 100517818	C	20090722	
	JP 4221371	B2	20090212	
	US 20050250013	A1	20051110	
	US 7504180	B2	20090317	

L4 ANSWER 16 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Manufacture of cobalt oxide for cathode active mass of secondary nonaqueous electrolyte battery, the cathode active mass, and the battery

	PATENT NO.	KIND	DATE	
PI	JP 2004079386	A	20040311	<--

L4 ANSWER 17 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries showing safety even in overcharging

	PATENT NO.	KIND	DATE	
PI	JP 2004047180	A	20040212	<--

L4 ANSWER 18 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous-electrolyte battery with cathode containing plural lithium mixed oxides

	PATENT NO.	KIND	DATE	
PI	JP 2004031165	A	20040129	<--

L4 ANSWER 19 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries with excellent rate performance and charge-discharge performance

	PATENT NO.	KIND	DATE	
PI	JP 2004030937	A	20040129	<--

L4 ANSWER 20 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Anode for lithium ion secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20040013942	A1	20040122	<--
	US 7144659	B2	20061205	
	JP 2004095529	A	20040325	<--
	JP 4313096	B2	20090812	
	KR 2004005605	A	20040116	<--
	CN 1472832	A	20040204	<--

L4 ANSWER 21 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Manufacture of cobalt compound oxide particles and cobalt oxide particles for manufacture of nonaqueous-electrolyte secondary battery cathodes

	PATENT NO.	KIND	DATE	
PI	JP 2004002066	A	20040108	<--

L4 ANSWER 22 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery using cobalt-lithium-manganese-nickel oxide as active mass

	PATENT NO.	KIND	DATE	
PI	JP 2003346797	A	20031205	<--

L4 ANSWER 23 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material and its production method for nonaqueous electrolyte secondary battery having excellent storage stability

	PATENT NO.	KIND	DATE	
PI	JP 2003331843	A	20031121	<--

L4 ANSWER 24 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary lithium ion batteries with high discharge capacity and charge-discharge efficiency

	PATENT NO.	KIND	DATE	
PI	JP 2003303592	A	20031024	<--

L4 ANSWER 25 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium secondary battery comprising overdischarge-preventing agent

	PATENT NO.	KIND	DATE	
PI	WO 2003081697	A1	20031002	<--
	KR 2003076153	A	20030926	<--
	CN 1518777	A	20040804	<--
	CN 1234179	C	20051228	
	EP 1490916	A1	20041229	<--
	JP 2005521220	T	20050714	
	US 20040157124	A1	20040812	<--
	US 7282300	B2	20071016	
	US 20050118496	A1	20050602	

L4 ANSWER 26 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20030180618	A1	20030925	<--
	JP 2003282055	A	20031003	<--
	JP 4307005	B2	20090805	

L4 ANSWER 27 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous electrolyte battery

	PATENT NO.	KIND	DATE	
PI	JP 2003242982	A	20030829	<--

L4 ANSWER 28 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium secondary battery containing lithium cobalt titanium oxide as positive electrode active substance

	PATENT NO.	KIND	DATE	
PI	JP 2003217659	A	20030731	<--
	JP 4190188	B2	20081203	

L4 ANSWER 29 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material for lithium ion secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1321994	A2	20030625	<--
	EP 1321994	A3	20070822	
	JP 2003187796	A	20030704	<--
	JP 4055414	B2	20080305	
	JP 2004014296	A	20040115	<--
	US 20030124424	A1	20030703	<--
	US 7026068	B2	20060411	
	US 20050271945	A1	20051208	
	US 20060093549	A1	20060504	
	US 7459238	B2	20081202	

L4 ANSWER 30 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Surface/chemically modified oxide cathodes for lithium-ion batteries

	PATENT NO.	KIND	DATE	
PI	US 20030108790	A1	20030612	<--
	WO 2003049218	A1	20030612	<--
	AU 2002351231	A1	20030617	<--

L4 ANSWER 31 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium battery

	PATENT NO.	KIND	DATE	
PI	WO 2003049216	A1	20030612	<--
	CN 1592978	A	20050309	
	CN 1319197	C	20070530	
	JP 4150343	B2	20080917	
	TW 580777	B	20040321	<--
	US 20040048158	A1	20040311	<--
	US 7179565	B2	20070220	

L4 ANSWER 32 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Method for fabrication of nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1317008	A2	20030604	<--
	EP 1317008	A3	20040204	
	EP 1317008	B1	20080917	
	TW 565961	B	20031211	<--
	JP 2003229129	A	20030815	<--
	JP 4111806	B2	20080702	
	US 20030104279	A1	20030605	<--

	US 6919144	B2	20050719	
	CN 1421952	A	20030604	<--
	CN 100454652	C	20090121	
	KR 916088	B1	20090908	
	HK 1054278	A1	20090724	

L4 ANSWER 33 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Battery structures, self-organizing structures and related methods

	PATENT NO.	KIND	DATE	
PI	US 20030099884	A1	20030529	<--
	US 7579112	B2	20090825	
	US 20030082446	A1	20030501	<--
	US 7553584	B2	20090630	
	US 20040018431	A1	20040129	<--
	US 7387851	B2	20080617	
	US 20080213662	A1	20080904	
	US 20080311470	A1	20081218	
	US 20100003603	A1	20100107	

L4 ANSWER 34 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium battery

	PATENT NO.	KIND	DATE	
PI	WO 2003038931	A1	20030508	<--
	EP 1439591	A1	20040721	<--
	CN 1541429	A	20041027	<--
	CN 1327551	C	20070718	
	JP 2003203634	A	20030718	<--
	JP 3654592	B2	20050602	
	US 20040072073	A1	20040415	<--
	US 7150940	B2	20061219	

L4 ANSWER 35 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Multi-doped nickel oxide cathode material

	PATENT NO.	KIND	DATE	
PI	US 20030047717	A1	20030313	<--

L4 ANSWER 36 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Battery

	PATENT NO.	KIND	DATE	
PI	WO 2003019713	A1	20030306	<--
	EP 1443584	A1	20040804	<--
	CN 1557036	A	20041222	<--
	CN 1314159	C	20070502	
	CN 1770542	A	20060510	
	CN 100448095	C	20081231	
	CN 1770543	A	20060510	
	CN 100446336	C	20081224	
	KR 2010004115	A	20100112	
	US 20040234853	A1	20041125	<--
	US 7510803	B2	20090331	

L4 ANSWER 37 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Battery structures, self-organizing structures, and related methods

	PATENT NO.	KIND	DATE	
PI	WO 2003012908	A2	20030213	<--

	WO 2003012908	A9	20040325	
	US 20030082446	A1	20030501	<--
	US 7553584	B2	20090630	
	CA 2455819	A1	20030213	<--
	AU 2002330924	A1	20030217	<--
	EP 1433217	A2	20040630	<--
	JP 2005525674	T	20050825	
	CN 1864298	A	20061115	
	KR 2009092348	A	20090831	
	IN 2004KN00118	A	20060407	
	US 20080213662	A1	20080904	

L4 ANSWER 38 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Production of lithium nickel manganese compound oxides for secondary lithium battery cathodes by firing their raw material mixtures

	PATENT NO.	KIND	DATE	
PI	JP 2003034538	A	20030207	<--
	JP 4092950	B2	20080528	
	JP 2007238437	A	20070920	

L4 ANSWER 39 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Magnesium-doped cobalt oxide for preparation of cathode-active materials for nonaqueous-electrolyte secondary lithium batteries

	PATENT NO.	KIND	DATE	
PI	EP 1281673	A1	20030205	<--
	EP 1281673	B1	20090610	
	US 20030049534	A1	20030313	<--
	US 6998071	B2	20060214	
	JP 2004051471	A	20040219	<--
	JP 4305613	B2	20090729	
	US 20050142445	A1	20050630	
	US 7112291	B2	20060926	
	US 20060138390	A1	20060629	
	US 7192539	B2	20070320	
	JP 2009120480	A	20090604	

L4 ANSWER 40 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Production of layered lithium nickel manganese compound oxide powder with high bulk density for secondary lithium battery cathodes

	PATENT NO.	KIND	DATE	
PI	JP 2003034537	A	20030207	<--

L4 ANSWER 41 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material containing lithium cobalt mixed oxide sulfide for lithium ion secondary battery

	PATENT NO.	KIND	DATE	
PI	JP 2003022807	A	20030124	<--
	JP 4240853	B2	20090318	

L4 ANSWER 42 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass containing lithium cobalt mixed oxide sulfide for secondary lithium ion battery

	PATENT NO.	KIND	DATE	
PI	JP 2003022806	A	20030124	<--
	JP 4168609	B2	20081022	

L4 ANSWER 43 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Cathode active mass containing lithium cobalt mixed oxide sulfide for secondary lithium ion battery

	PATENT NO.	KIND	DATE	
PI	JP 2003022805	A	20030124	<--
	JP 4168608	B2	20081022	

L4 ANSWER 44 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Gradient cathode material for lithium rechargeable batteries

	PATENT NO.	KIND	DATE	
PI	US 20020192552	A1	20021219	<--
	US 6921609	B2	20050726	
	US 20020192556	A1	20021219	<--
	US 6855461	B2	20050215	
	TW 550844	B	20030901	<--
	WO 2002103823	A2	20021227	<--
	WO 2002103823	A3	20040115	
	WO 2002103824	A2	20021227	<--
	WO 2002103824	A3	20040422	
	AU 2002309278	A1	20030102	<--
	AU 2002309279	A1	20030102	<--
	EP 1405358	A2	20040407	<--
	EP 1433213	A2	20040630	<--
	JP 2004531034	T	20041007	<--
	JP 2004533104	T	20041028	<--

L4 ANSWER 45 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Multi-salt electrolyte for electrochemical applications

	PATENT NO.	KIND	DATE	
PI	US 20020192546	A1	20021219	<--
	WO 2002101870	A1	20021219	<--
	AU 2002314920	A1	20021223	<--

L4 ANSWER 46 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium cobalt titanium mixed oxide halide cathode active mass and its manufacture for secondary lithium ion battery

	PATENT NO.	KIND	DATE	
PI	JP 2002352802	A	20021206	<--
	JP 3695366	B2	20050914	

L4 ANSWER 47 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous-electrolyte battery with cathode containing two kinds of lithium mixed oxides

	PATENT NO.	KIND	DATE	
PI	JP 2002319398	A	20021031	<--

L4 ANSWER 48 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material composition for rechargeable lithium batteries

	PATENT NO.	KIND	DATE	
PI	US 20020142225	A1	20021003	<--
	US 7507501	B2	20090324	
	KR 2002077554	A	20021012	<--
	JP 2002358967	A	20021213	<--
	JP 4369645	B2	20091125	
	CN 1225045	C	20051026	

L4 ANSWER 49 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass and battery thereof

	PATENT NO.	KIND	DATE	
PI	WO 2002073719	A1	20020919	<--
	JP 2002270176	A	20020920	<--
	EP 1369940	A1	20031210	<--
	US 20040096742	A1	20040520	<--

L4 ANSWER 50 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Method of preparation of a cathode active material for lithium secondary battery

	PATENT NO.	KIND	DATE	
PI	WO 2002073717	A1	20020919	<--
	KR 2002072833	A	20020919	<--
	EP 1281207	A1	20030205	<--
	JP 2004519825	T	20040702	<--
	JP 3860542	B2	20061220	
	CN 1222062	C	20051005	
	TW 567632	B	20031221	<--
	US 20030108794	A1	20030612	<--
	US 20070122338	A1	20070531	

L4 ANSWER 51 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1237213	A2	20020904	<--
	EP 1237213	A3	20051123	
	JP 2002251996	A	20020906	<--
	TW 543227	B	20030721	<--
	US 20020164528	A1	20021107	<--
	US 6818351	B2	20041116	
	KR 794051	B1	20080110	
	CN 1372341	A	20021002	<--
	CN 1238917	C	20060125	
	HK 1049917	A1	20060623	

L4 ANSWER 52 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material for secondary lithium ion battery and its manufacture

	PATENT NO.	KIND	DATE	
PI	JP 2002216763	A	20020802	<--
	JP 3695365	B2	20050914	

L4 ANSWER 53 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material and nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	WO 2002054512	A1	20020711	<--
	JP 2002203556	A	20020719	<--
	JP 2002203558	A	20020719	<--
	JP 4325112	B2	20090902	<--
	JP 2002203553	A	20020719	
	EP 1347524	A1	20030924	<--
	KR 882144	B1	20090206	
	US 20030134200	A1	20030717	<--
	US 20060093914	A1	20060504	
	KR 2008100500	A	20081118	

	KR 915795	B1	20090908	

L4 ANSWER 54 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass for secondary nonaqueous electrolyte battery and the battery

	PATENT NO.	KIND	DATE	
PI	WO 2002054511	A1	20020711	<--
	CN 1185734	C	20050119	
	JP 3782058	B2	20060607	
	US 20030013017	A1	20030116	<--
	US 6991752	B2	20060131	

L4 ANSWER 55 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Anode active material for a secondary lithium battery

	PATENT NO.	KIND	DATE	
PI	KR 2000073492	A	20001205	<--

L4 ANSWER 56 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	US 20020081495	A1	20020627	<--
	JP 2002151054	A	20020524	<--
	JP 2002246026	A	20020830	<--

L4 ANSWER 57 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Process for producing cathode active material for nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1211741	A2	20020605	<--
	EP 1211741	A3	20040102	
	US 20020098416	A1	20020725	<--
	US 6756154	B2	20040629	
	JP 2002231246	A	20020816	<--
	US 20040208818	A1	20041021	<--

L4 ANSWER 58 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Reticulated and controlled porosity battery structures

	PATENT NO.	KIND	DATE	
PI	WO 2002043168	A2	20020530	<--
	WO 2002043168	A3	20030724	
	WO 2002043168	A9	20031204	
	CA 2426156	A1	20020530	<--
	AU 2002041629	A	20020603	<--
	EP 1352436	A2	20031015	<--
	EP 1352436	B1	20080820	
	CN 1470083	A	20040121	<--
	CN 1278441	C	20061004	
	JP 2004525481	T	20040819	<--
	CN 1901255	A	20070124	
	AT 405960	T	20080915	
	ES 2312487	T3	20090301	
	KR 912754	B1	20090818	
	JP 2006100280	A	20060413	
	JP 2007066913	A	20070315	
	US 20080213662	A1	20080904	
	KR 2008081377	A	20080909	
	KR 929452	B1	20091202	

	KR 2009045431	A	20090507	

L4 ANSWER 59 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Solid electrolyte cell

	PATENT NO.	KIND	DATE	
PI	EP 1195826	A2	20020410	<--
	EP 1195826	A3	20031126	
	JP 2002117844	A	20020419	<--
	JP 3982165	B2	20070926	
	US 20020094481	A1	20020718	<--
	US 6720113	B2	20040413	
	TW 523952	B	20030311	<--
	CN 1349273	A	20020515	<--
	CN 1181590	C	20041222	
	CA 2358294	A1	20020405	<--
	MX 2001009973	A	20030820	<--
	KR 826814	B1	20080502	

L4 ANSWER 60 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1180809	A2	20020220	<--
	EP 1180809	A3	20070509	
	JP 2002063940	A	20020228	<--
	TW 511314	B	20021121	<--
	CA 2354754	A1	20020214	<--
	US 20020076612	A1	20020620	<--
	US 6677080	B2	20040113	
	CN 1341975	A	20020327	<--
	CN 1220292	C	20050921	
	KR 832251	B1	20080528	

L4 ANSWER 61 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium-containing cobalt composite oxide for improving overcharge resistance and battery capacity in secondary lithium battery and its manufacturing method

	PATENT NO.	KIND	DATE	
PI	JP 2002037629	A	20020206	<--

L4 ANSWER 62 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1168472	A1	20020102	<--
	JP 2002083597	A	20020322	<--
	CN 1331498	A	20020116	<--
	CN 1167156	C	20040915	
	US 20020015890	A1	20020207	<--
	US 6537702	B2	20030325	

L4 ANSWER 63 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous electrolyte battery and its manufacture

	PATENT NO.	KIND	DATE	
PI	JP 2001351624	A	20011221	<--

L4 ANSWER 64 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material containing lithium transition metal composite oxide for nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1154503	A1	20011114	<--
	JP 2001319652	A	20011116	<--
	TW 523956	B	20030311	<--
	US 20020037456	A1	20020328	<--
	US 6805996	B2	20041019	
	CN 1324120	A	20011128	<--
	CN 1236511	C	20060111	
	KR 811580	B1	20080310	

L4 ANSWER 65 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous-electrolyte battery with cathode containing lithium mixed oxide and alumina

	PATENT NO.	KIND	DATE	
PI	JP 2001273897	A	20011005	<--
	JP 4152056	B2	20080917	

L4 ANSWER 66 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous-electrolyte battery with cathode containing lithium mixed oxide

	PATENT NO.	KIND	DATE	
PI	JP 2001273896	A	20011005	<--
	JP 4136260	B2	20080820	

L4 ANSWER 67 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium cobalt mixed oxides for cathode active materials, their manufacture, and lithium ion nonaqueous secondary batteries

	PATENT NO.	KIND	DATE	
PI	JP 2001223008	A	20010817	<--
	US 6582854	B1	20030624	<--

L4 ANSWER 68 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries having improved cathodes

	PATENT NO.	KIND	DATE	
PI	JP 2001167763	A	20010622	<--
	JP 2006173137	A	20060629	

L4 ANSWER 69 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries

	PATENT NO.	KIND	DATE	
PI	JP 2001068168	A	20010316	<--

L4 ANSWER 70 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass for lithium batteries, its manufacture, and the batteries

	PATENT NO.	KIND	DATE	
PI	JP 2001068113	A	20010316	<--

L4 ANSWER 71 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries capable of charging and discharging at high voltage

	PATENT NO.	KIND	DATE	
PI	JP 2001052704	A	20010223	<--

L4 ANSWER 72 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium nickel oxide cathode active mass for secondary lithium batteries and the batteries

	PATENT NO.	KIND	DATE	
PI	JP 2000348724	A	20001215	<--

L4 ANSWER 73 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Mixtures of lithium manganese oxide spinel as cathode active material

	PATENT NO.	KIND	DATE	
PI	US 6159636	A	20001212	<--
	US 5753202	A	19980519	<--

L4 ANSWER 74 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous lithium electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1043794	A2	20001011	<--
	EP 1043794	A3	20021218	
	US 6165647	A	20001226	<--
	CN 1270424	A	20001018	<--
	CN 1162934	C	20040818	

L4 ANSWER 75 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 1043793	A2	20001011	<--
	EP 1043793	A3	20021016	
	EP 1043793	B1	20080402	
	US 6303250	B1	20011016	<--
	CN 1270425	A	20001018	<--
	CN 1162935	C	20040818	

L4 ANSWER 76 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous electrolyte lithium batteries

	PATENT NO.	KIND	DATE	
PI	WO 2000052773	A1	20000908	<--
	JP 2000315503	A	20001114	<--
	JP 3869605	B2	20070117	
	CA 2365562	A1	20000908	<--
	CA 2365562	C	20070710	
	EP 1174937	A1	20020123	<--
	EP 1174937	B1	20100120	
	HU 2002000246	A2	20020729	<--
	EP 1885011	A2	20080206	
	EP 1885011	A3	20080220	
	US 6746800	B1	20040608	<--

L4 ANSWER 77 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass for secondary lithium batteries

	PATENT NO.	KIND	DATE	
PI	JP 2000182618	A	20000630	<--
	KR 2000038919	A	20000705	<--
	CN 1257318	A	20000621	<--
	CN 1144305	C	20040331	

L4 ANSWER 78 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous-electrolyte batteries with cathodes

containing coated lithium mixed oxides

	PATENT NO.	KIND	DATE	
PI	JP 2000149950	A	20000530	<--

L4 ANSWER 79 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Manufacture of cathode active mass for lithium ion batteries by controlled crystallization

	PATENT NO.	KIND	DATE	
PI	CN 1218304	A	19990602	<--
	CN 1085417	C	20020522	

L4 ANSWER 80 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium transition metal compound for lithium secondary battery

	PATENT NO.	KIND	DATE	
PI	EP 973217	A2	20000119	<--
	EP 973217	A3	20000628	
	EP 973217	B1	20090527	
	JP 2000090933	A	20000331	<--
	JP 3142522	B2	20010307	
	JP 2000200607	A	20000718	<--
	US 6368750	B1	20020409	<--
	CA 2494779	A1	20000113	<--
	CA 2277231	C	20050503	
	US 20020142221	A1	20021003	<--
	US 20050118505	A1	20050602	

L4 ANSWER 81 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass containing lithium cobalt mixed oxide for secondary nonaqueous-electrolyte batteries and batteries using it

	PATENT NO.	KIND	DATE	
PI	JP 2000012022	A	20000114	<--
	JP 4240242	B2	20090318	

L4 ANSWER 82 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Solvents in manufacture of cathode active mass for lithium ion secondary batteries

	PATENT NO.	KIND	DATE	
PI	JP 11162464	A	19990618	<--
	JP 3411488	B2	20030603	

L4 ANSWER 83 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Active materials for nonaqueous secondary batteries, cathode plates, and nonaqueous secondary batteries

	PATENT NO.	KIND	DATE	
PI	JP 11135119	A	19990521	<--
	CN 1207208	A	19990203	<--

L4 ANSWER 84 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass for secondary nonaqueous electrolyte batteries and method for evaluating the active mass

	PATENT NO.	KIND	DATE	
PI	JP 11102704	A	19990413	<--
	JP 3508987	B2	20040322	

L4 ANSWER 85 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Battery cathodes and their manufacture

PATENT NO.	KIND	DATE	
PI JP 11086846	A	19990330	<--

L4 ANSWER 86 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium battery having coated mixed oxide particles as cathode active mass

PATENT NO.	KIND	DATE	
PI JP 11067209	A	19990309	<--

L4 ANSWER 87 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries inhibiting lithium dendrite generation and electronic apparatus using the batteries

PATENT NO.	KIND	DATE	
PI JP 11016571	A	19990122	<--

L4 ANSWER 88 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active materials for lithium batteries, their manufacture, and the batteries

PATENT NO.	KIND	DATE	
PI JP 10321228	A	19981204	<--

L4 ANSWER 89 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries with lithium and magnesium containing oxide cathodes

PATENT NO.	KIND	DATE	
PI JP 10241691	A	19980911	<--
JP 3624663	B2	20050302	

L4 ANSWER 90 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Alkali metal secondary batteries using alkali metal nickel aluminum mixed oxide cathodes

PATENT NO.	KIND	DATE	
PI JP 10208744	A	19980807	<--

L4 ANSWER 91 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous-electrolyte alkali metal secondary batteries using alkali metal nickel aluminum mixed oxide cathodes

PATENT NO.	KIND	DATE	
PI JP 10208742	A	19980807	<--

L4 ANSWER 92 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium secondary batteries and their cathode active materials

PATENT NO.	KIND	DATE	
PI JP 10162830	A	19980619	<--
JP 3355102	B2	20021209	

L4 ANSWER 93 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass and its manufacture for secondary nonaqueous electrolyte batteries

PATENT NO.	KIND	DATE	
PI JP 10144315	A	19980529	<--

L4 ANSWER 94 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Manufacture of lithium nickelate cathode materials for lithium batteries

PATENT NO.	KIND	DATE	
PI JP 10134811	A	19980522	<--

L4 ANSWER 95 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium rechargeable electrode for electrochemical generator

PATENT NO.	KIND	DATE	
PI WO 9802928	A1	19980122	<--
FR 2751135	A1	19980116	<--
US 6071645	A	20000606	<--
CA 2228671	A1	19980122	<--
EP 858677	A1	19980819	<--
EP 858677	B1	20011205	
JP 11513181	T	19991109	<--

L4 ANSWER 96 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of cathode active materials of lithium nickel oxide or complex oxide, and secondary nonaqueous battery using these materials

PATENT NO.	KIND	DATE	
PI EP 798797	A1	19971001	<--
EP 798797	B1	20010912	
JP 09320584	A	19971212	<--
JP 3507642	B2	20040315	
JP 09320601	A	19971212	<--
JP 3566826	B2	20040915	
JP 09326255	A	19971216	<--
JP 3589542	B2	20041117	
US 5985488	A	19991116	<--

L4 ANSWER 97 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary lithium batteries using lithium cobalt boron magnesium oxide cathode active masses

PATENT NO.	KIND	DATE	
PI JP 09063582	A	19970307	<--

L4 ANSWER 98 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous-electrolyte lithium battery and its cathode

PATENT NO.	KIND	DATE	
PI EP 744780	A1	19961127	<--
EP 744780	B1	20040804	
JP 09274917	A	19971021	<--
JP 3079033	B2	20000821	
JP 09092285	A	19970404	<--
JP 3260282	B2	20020225	
US 5631105	A	19970520	<--

L4 ANSWER 99 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active mass, their manufacture, and nonaqueous-electrolyte secondary batteries using them

PATENT NO.	KIND	DATE	
PI JP 08138669	A	19960531	<--

L4 ANSWER 100 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

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TI   Secondary lithium batteries
     PATENT NO.          KIND   DATE
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PI   WO 9617392           A1    19960606                              <--
     JP 08153541          A     19960611                              <--
     AU 9539363           A     19960619                              <--
     EP 794585            A1    19970910                              <--
     US 5804335           A     19980908                              <--
     US 5989745           A     19991123                              <--


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